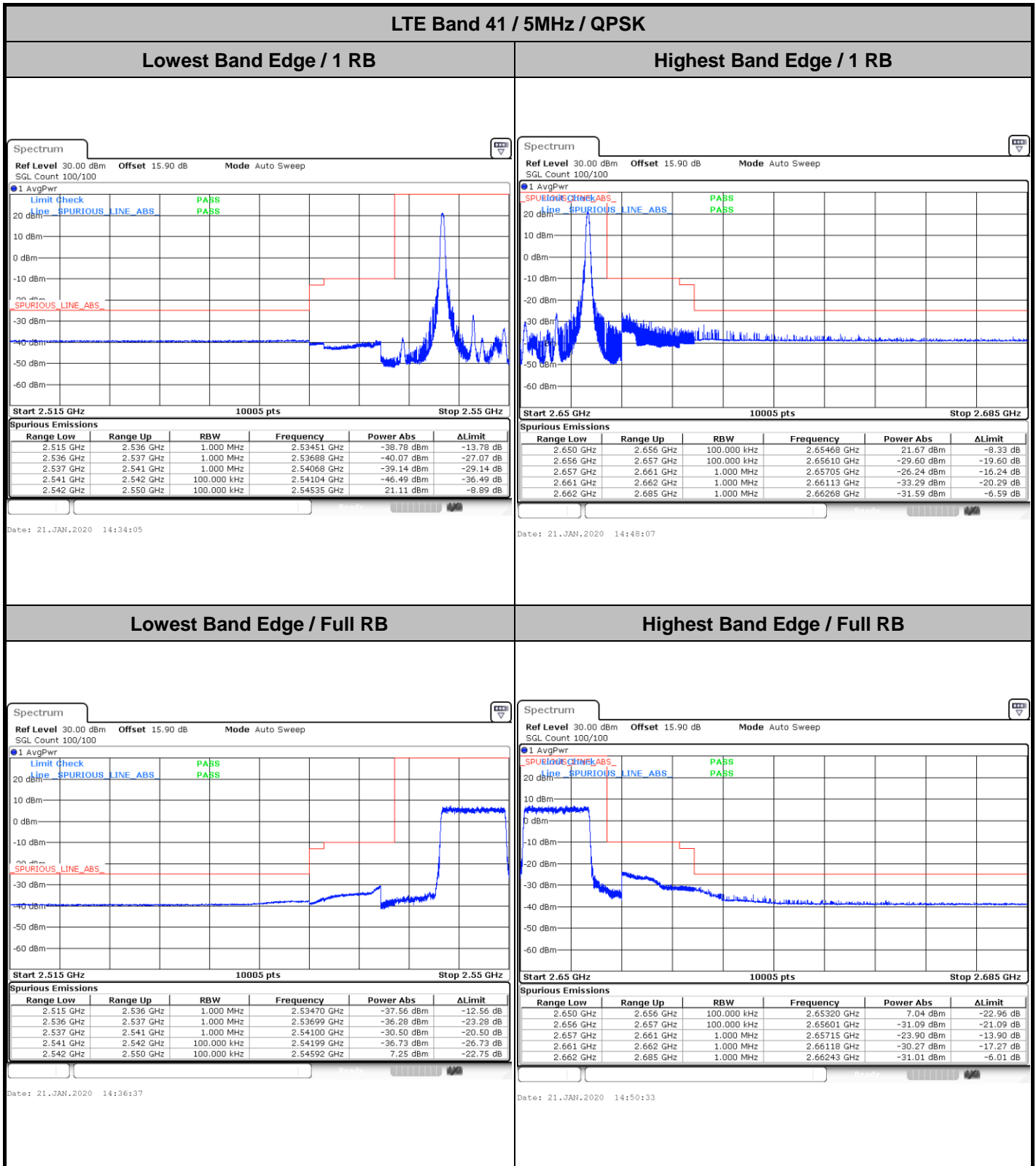




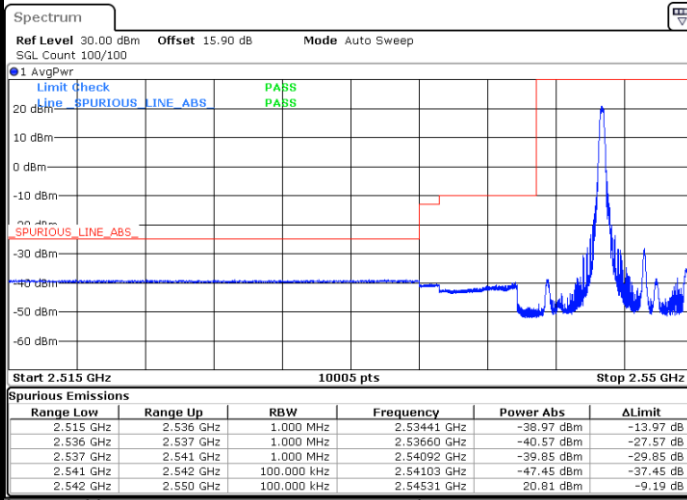
Conducted Band Edge





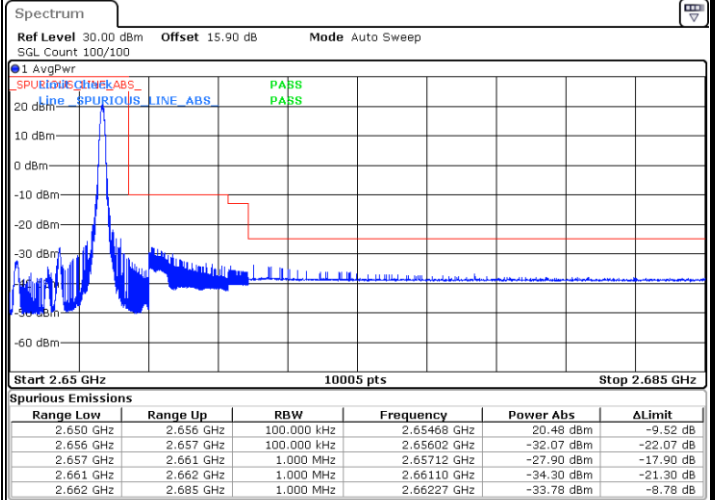
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



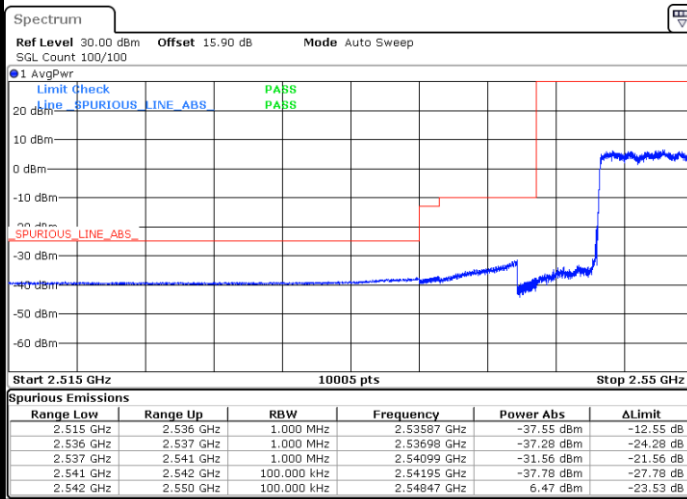
Date: 21.JAN.2020 14:35:20

Highest Band Edge / 1 RB



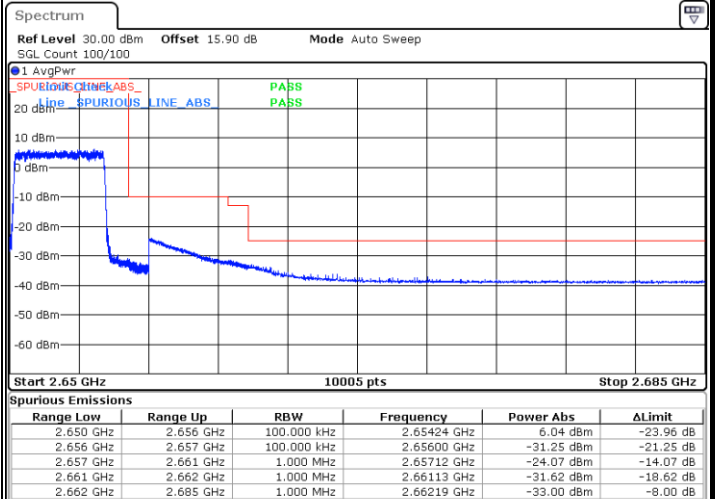
Date: 21.JAN.2020 14:49:20

Lowest Band Edge / Full RB



Date: 21.JAN.2020 14:37:52

Highest Band Edge / Full RB

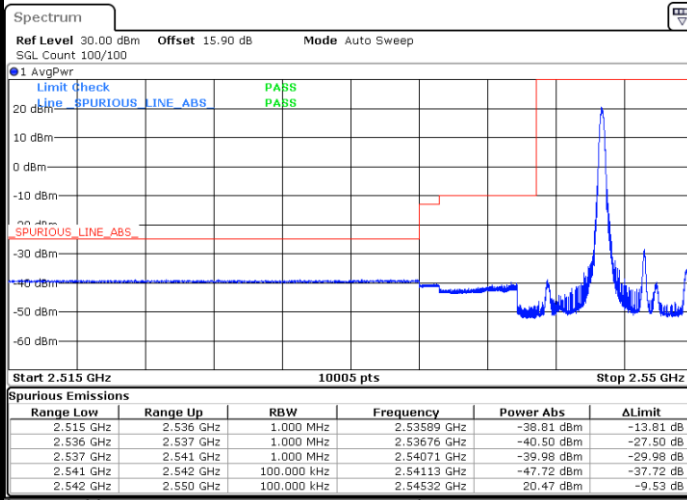


Date: 21.JAN.2020 14:51:47



LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



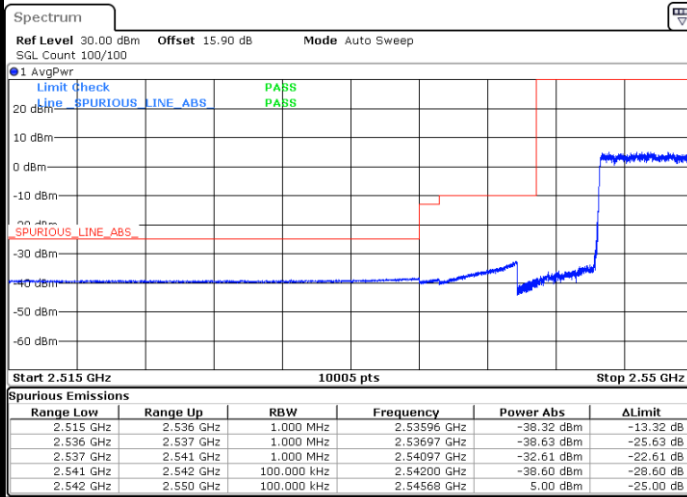
Date: 21.JAN.2020 14:55:15

Highest Band Edge / 1 RB



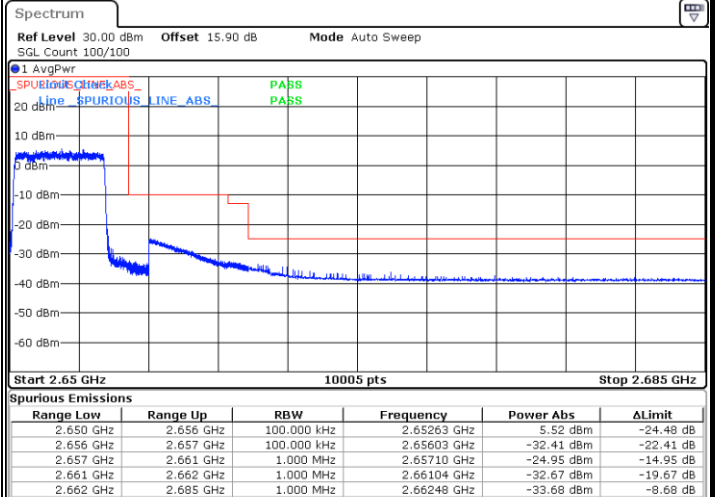
Date: 21.JAN.2020 14:59:56

Lowest Band Edge / Full RB



Date: 21.JAN.2020 14:56:30

Highest Band Edge / Full RB

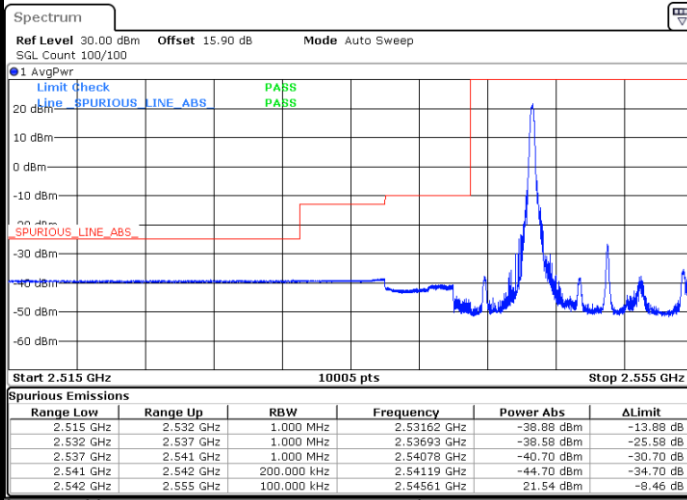


Date: 21.JAN.2020 15:01:09



LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



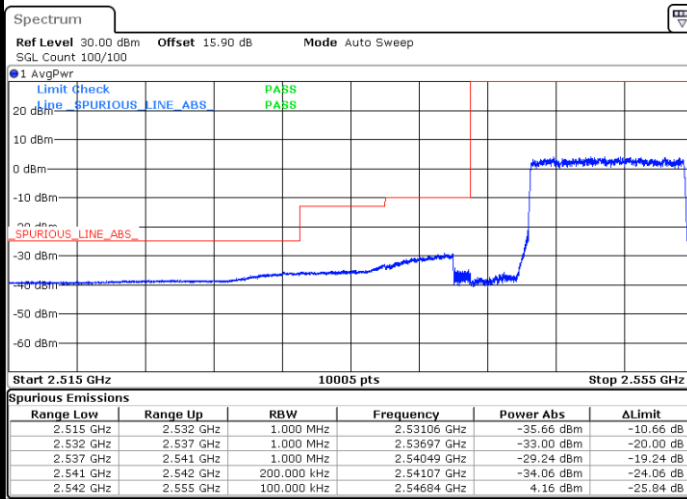
Date: 21.JAN.2020 15:11:46

Highest Band Edge / 1 RB



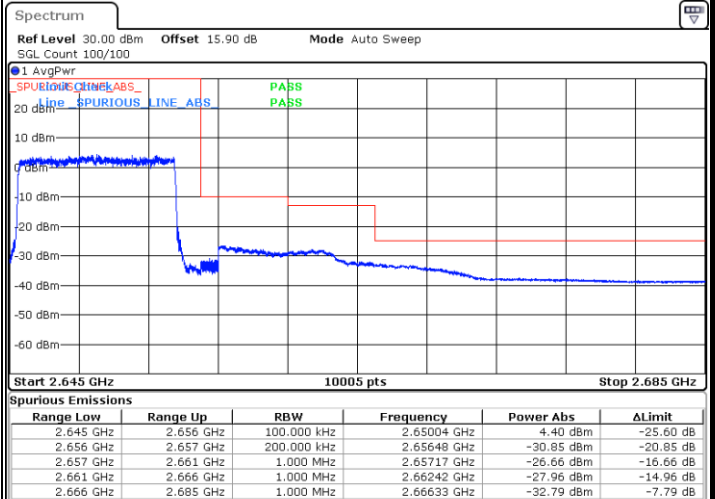
Date: 21.JAN.2020 15:21:09

Lowest Band Edge / Full RB



Date: 21.JAN.2020 15:14:16

Highest Band Edge / Full RB

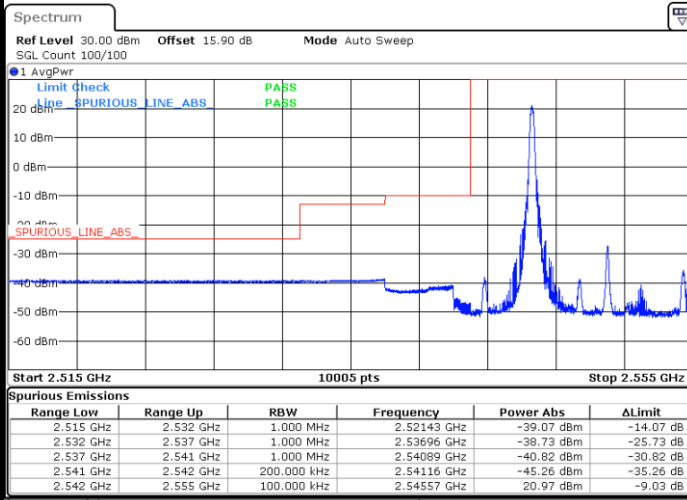


Date: 21.JAN.2020 15:23:36



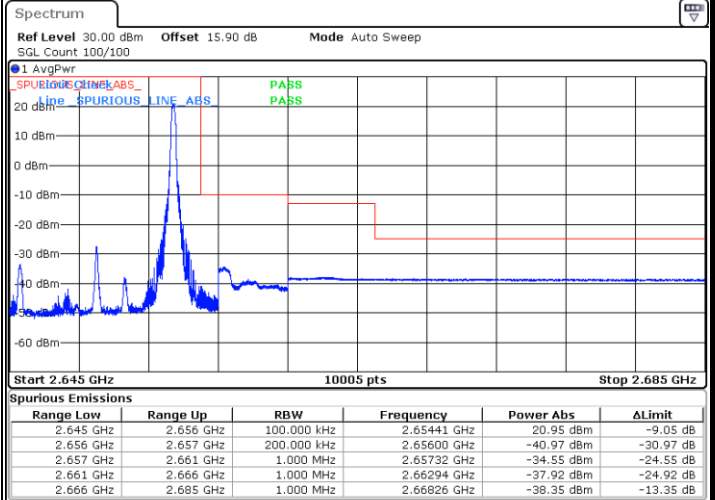
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



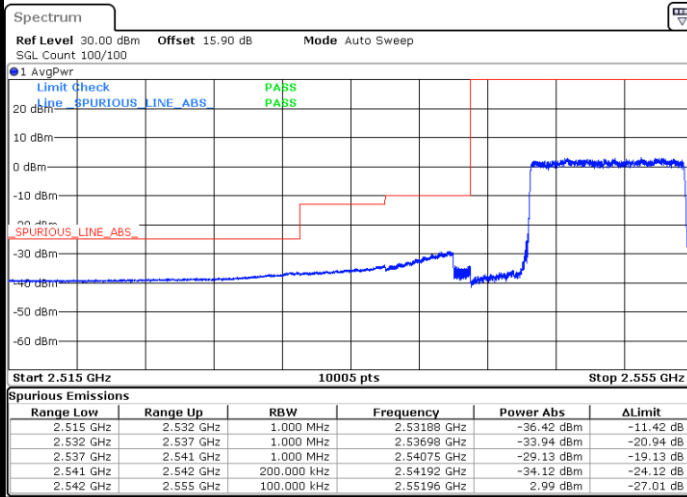
Date: 21.JAN.2020 15:13:01

Highest Band Edge / 1 RB



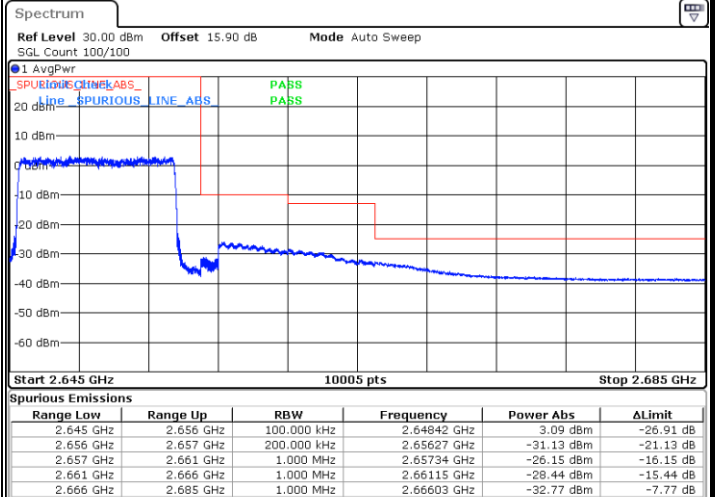
Date: 21.JAN.2020 15:22:22

Lowest Band Edge / Full RB



Date: 21.JAN.2020 15:15:31

Highest Band Edge / Full RB

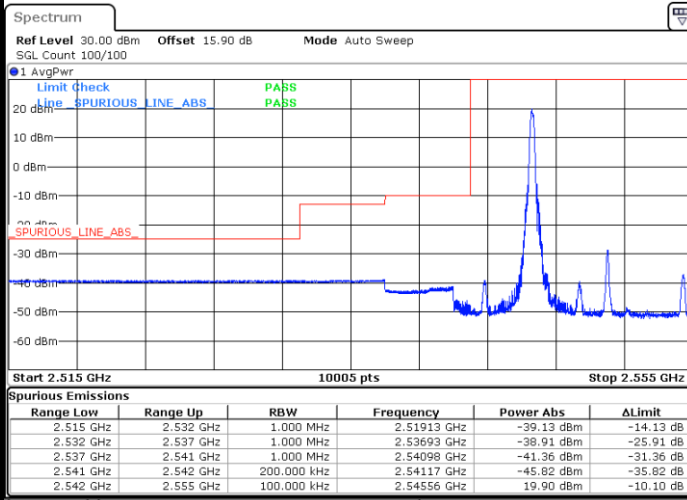


Date: 21.JAN.2020 15:24:49



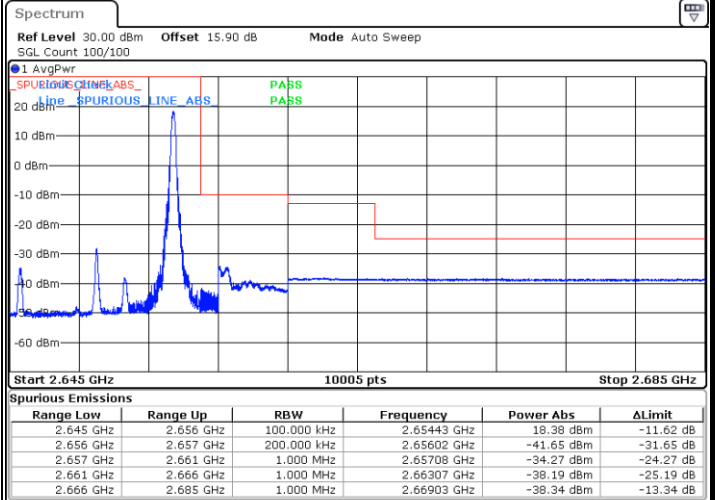
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



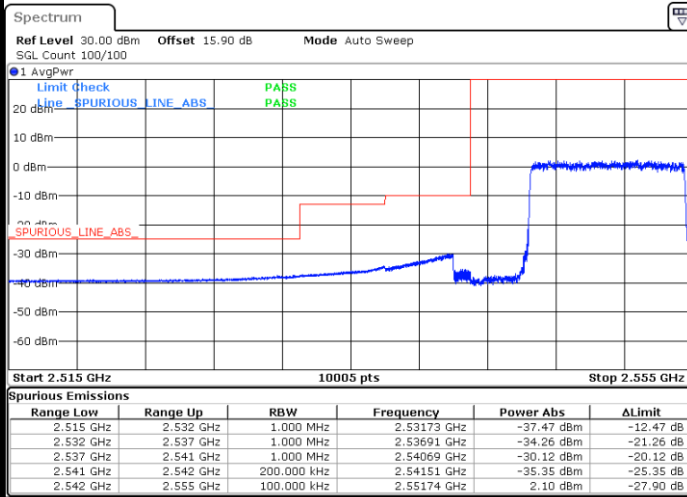
Date: 21.JAN.2020 15:03:31

Highest Band Edge / 1 RB



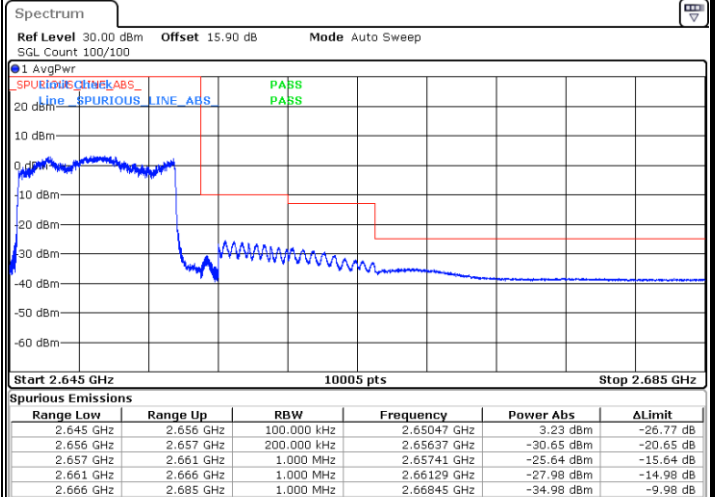
Date: 21.JAN.2020 15:08:12

Lowest Band Edge / Full RB



Date: 21.JAN.2020 15:04:46

Highest Band Edge / Full RB



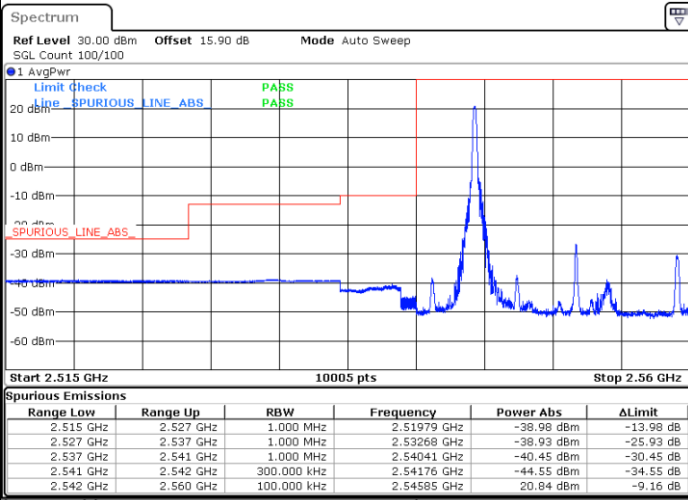
Date: 21.JAN.2020 15:09:25



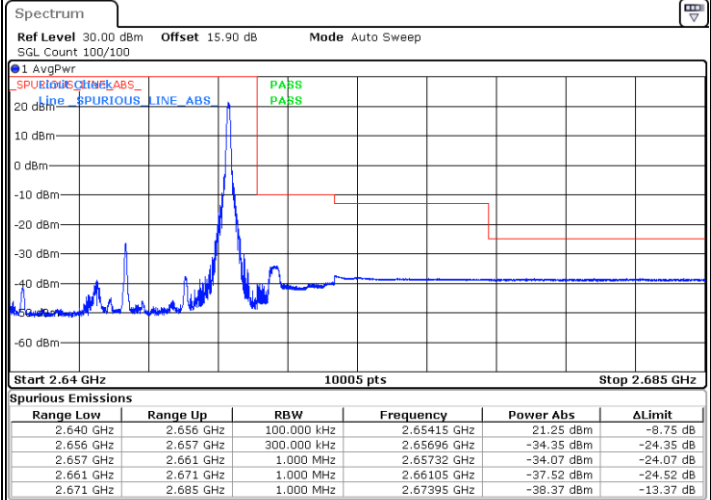
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



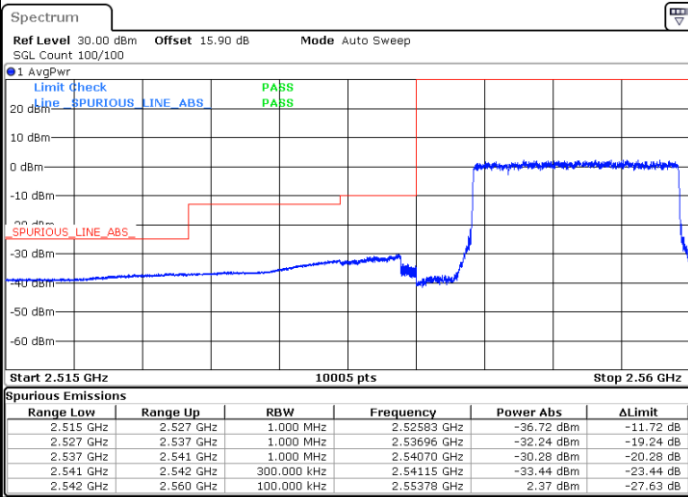
Date: 21.JAN.2020 15:28:17



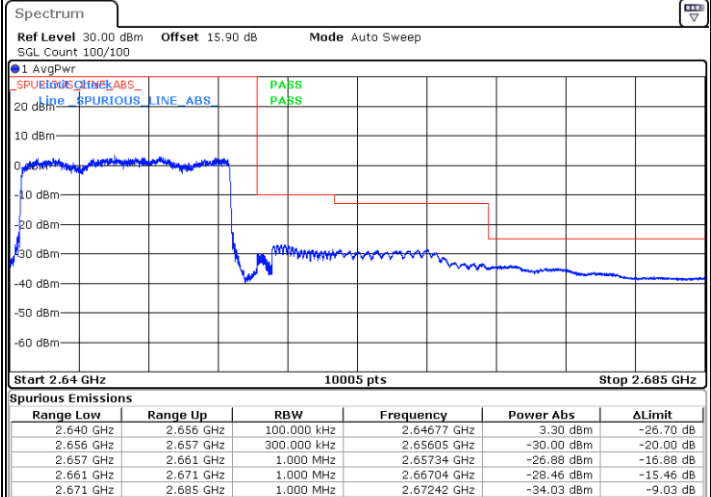
Date: 21.JAN.2020 15:37:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.JAN.2020 15:30:48

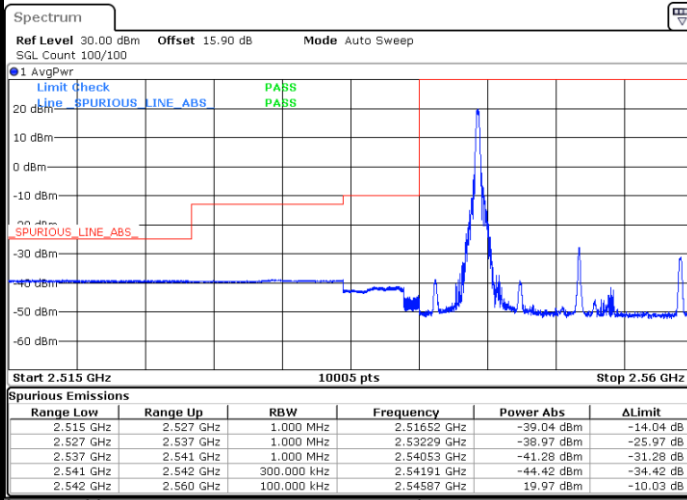


Date: 21.JAN.2020 15:40:08



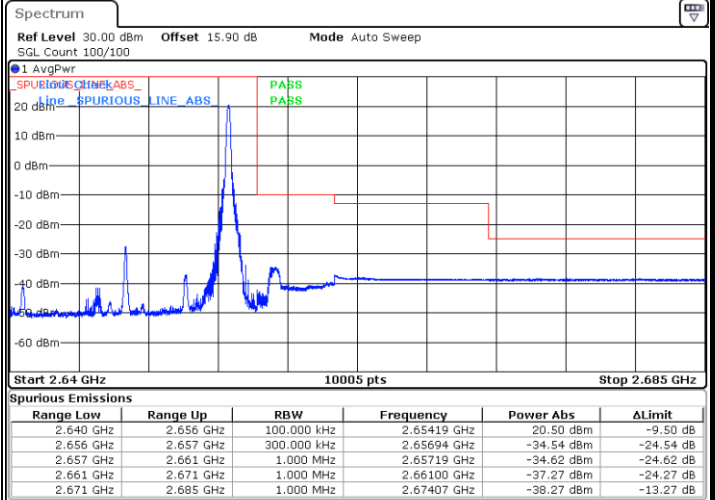
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



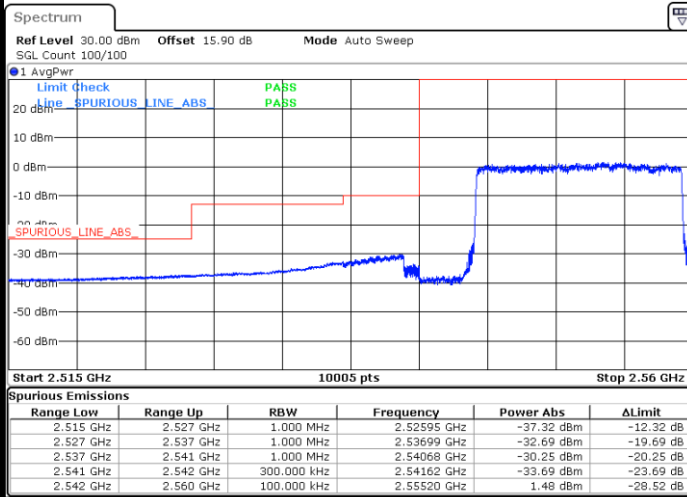
Date: 21.JAN.2020 15:29:32

Highest Band Edge / 1 RB



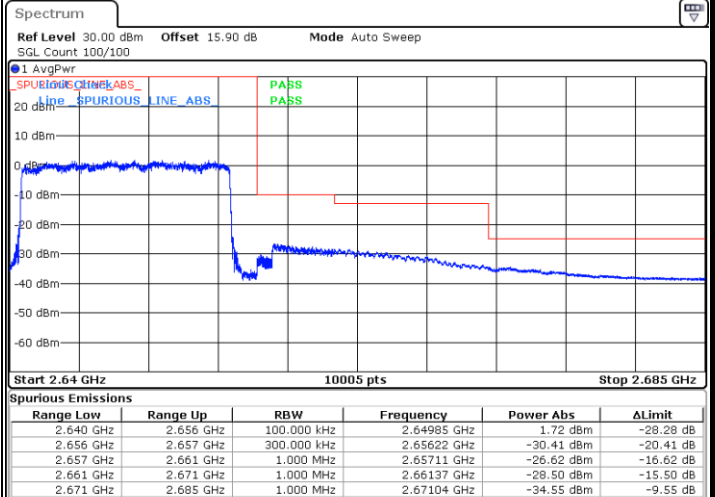
Date: 21.JAN.2020 15:38:55

Lowest Band Edge / Full RB



Date: 21.JAN.2020 15:32:03

Highest Band Edge / Full RB



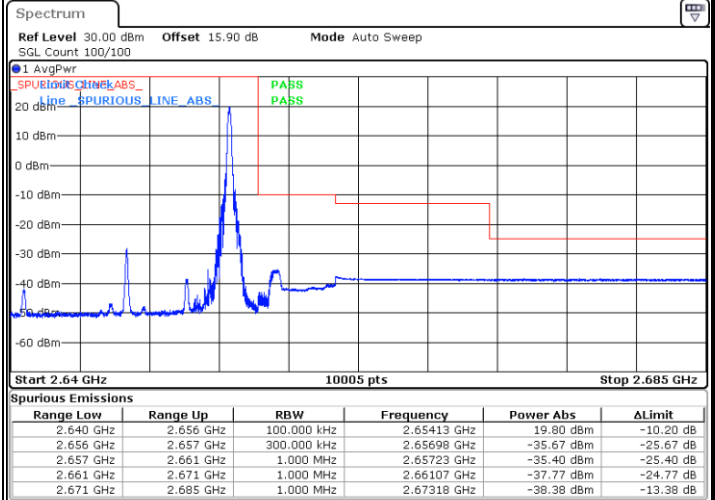
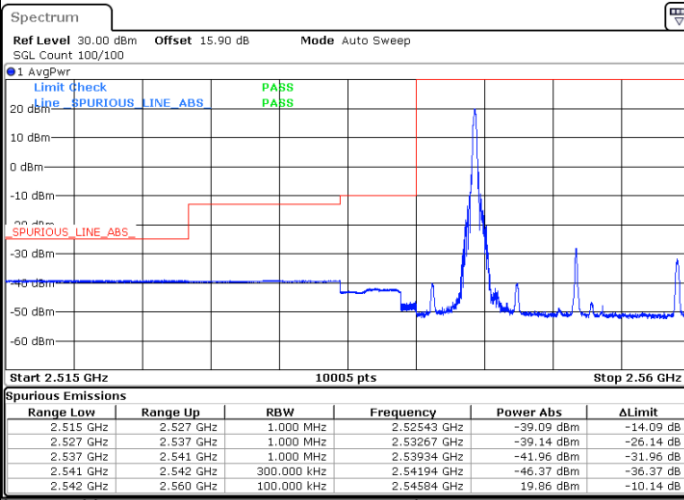
Date: 21.JAN.2020 15:41:22



LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

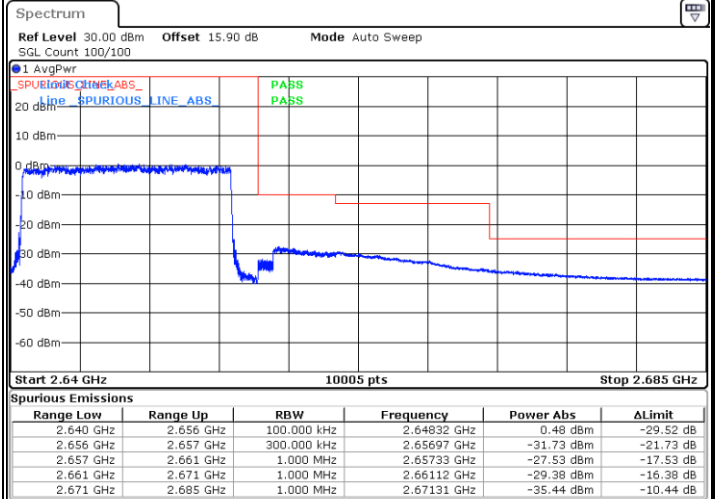
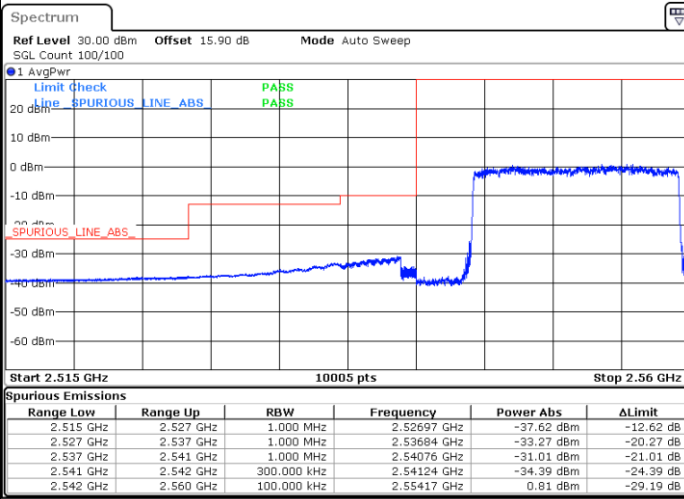


Date: 21.JAN.2020 15:44:50

Date: 21.JAN.2020 15:49:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.JAN.2020 15:46:05

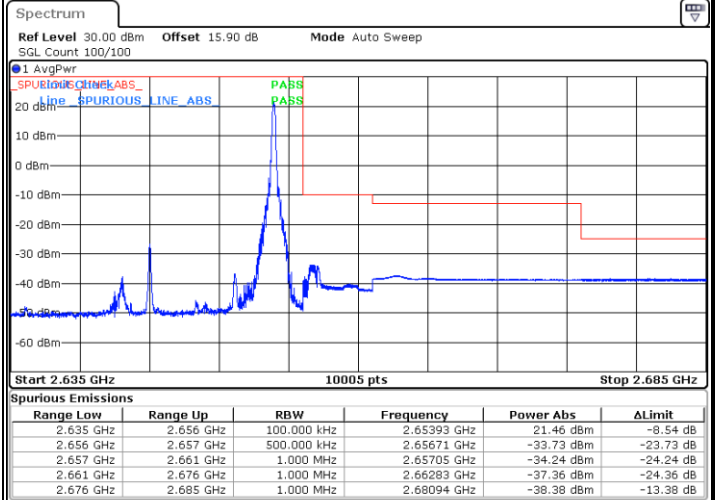
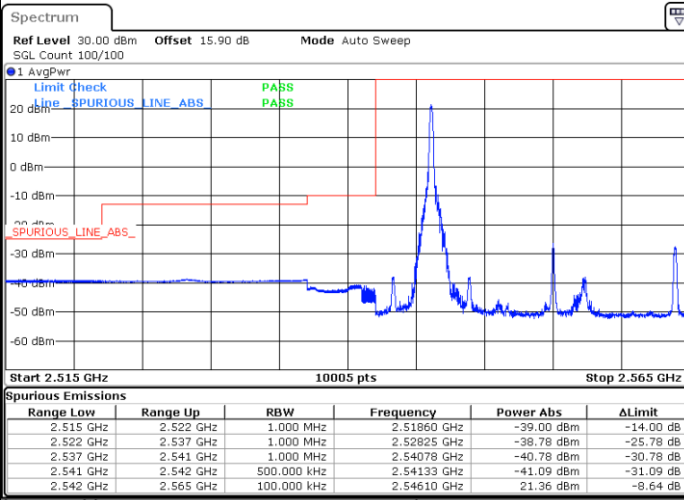
Date: 21.JAN.2020 15:50:45



LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

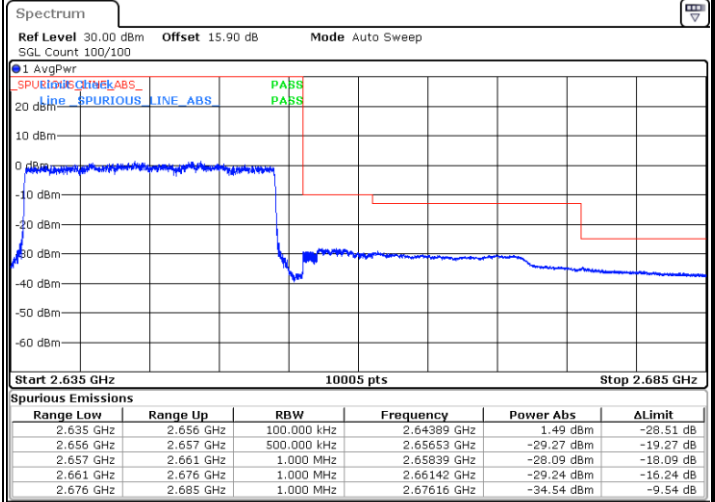
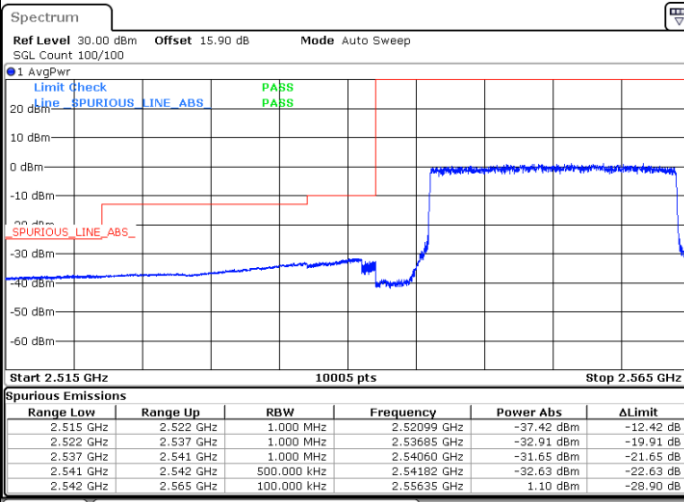


Date: 21.JAN.2020 16:03:31

Date: 21.JAN.2020 16:12:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



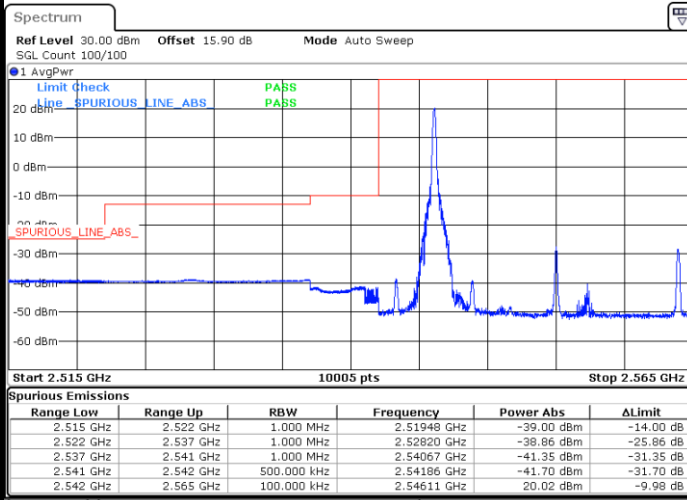
Date: 21.JAN.2020 16:06:01

Date: 21.JAN.2020 16:16:36



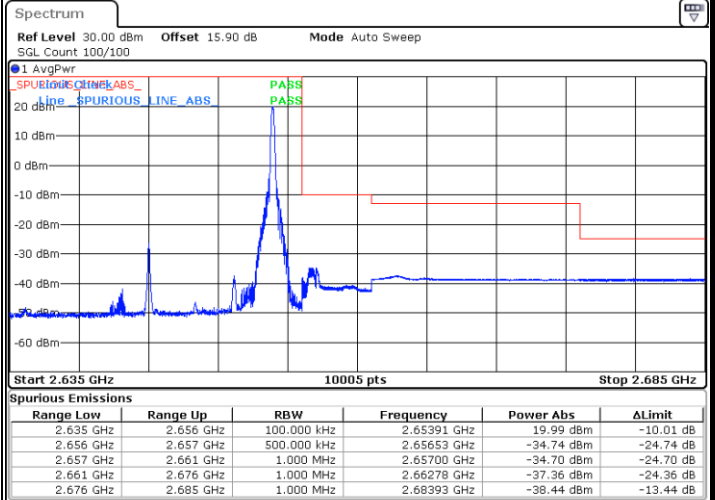
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



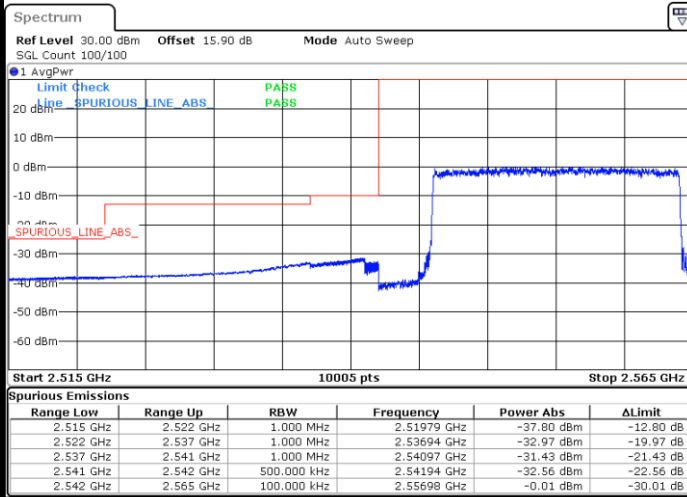
Date: 21.JAN.2020 16:04:46

Highest Band Edge / 1 RB



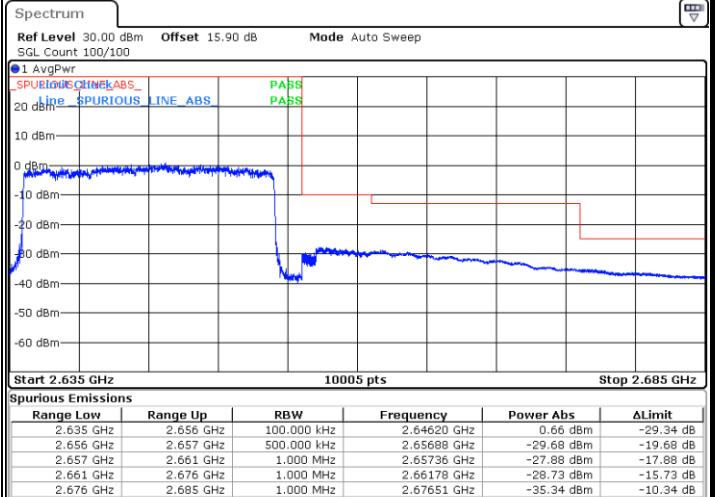
Date: 21.JAN.2020 16:14:10

Lowest Band Edge / Full RB



Date: 21.JAN.2020 16:07:16

Highest Band Edge / Full RB

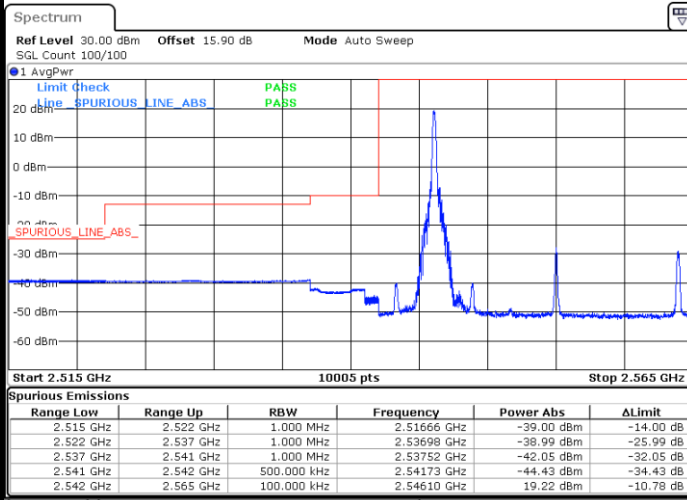


Date: 21.JAN.2020 16:15:23



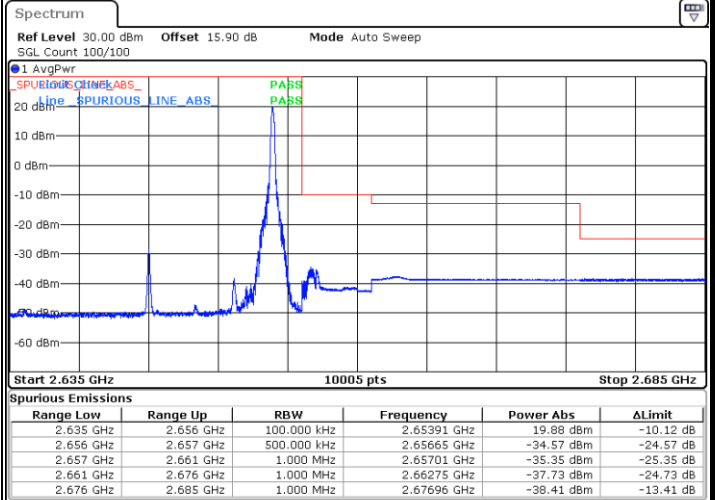
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



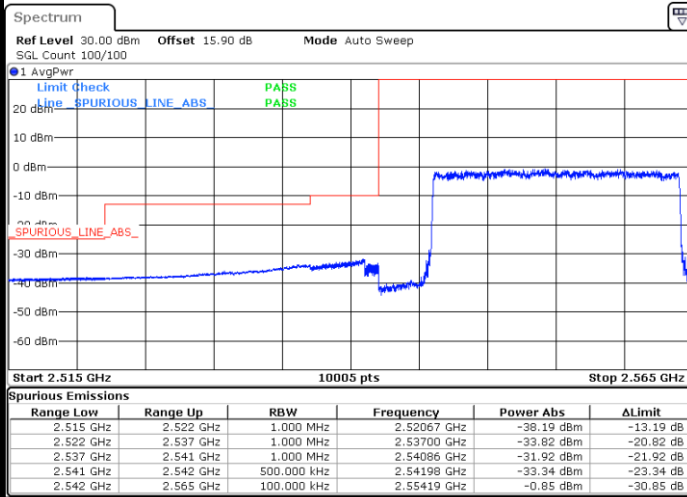
Date: 21.JAN.2020 15:55:16

Highest Band Edge / 1 RB



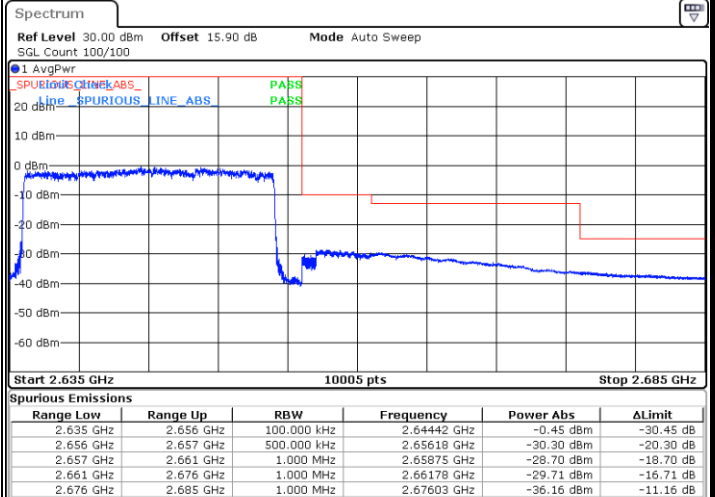
Date: 21.JAN.2020 15:59:57

Lowest Band Edge / Full RB



Date: 21.JAN.2020 15:56:31

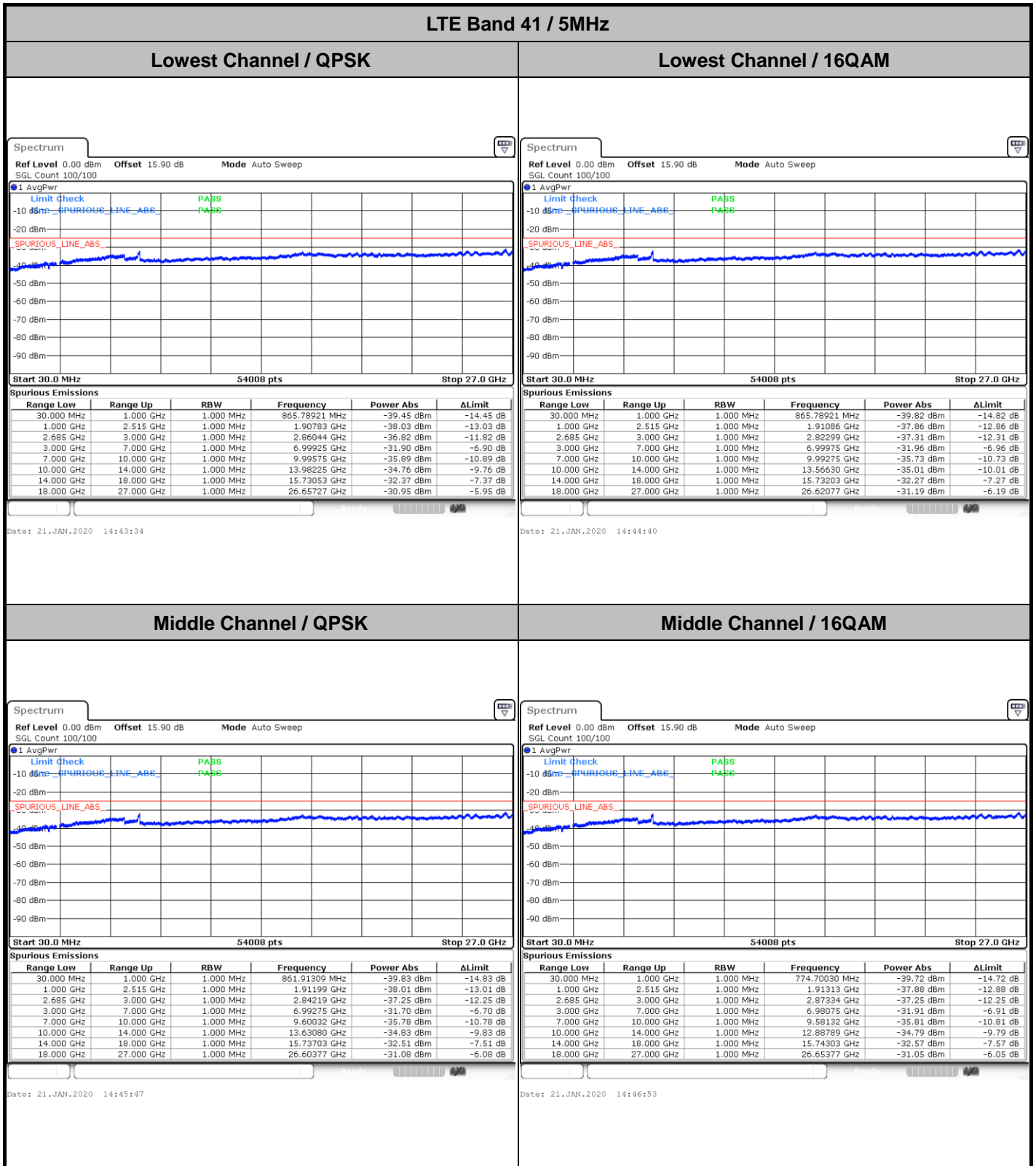
Highest Band Edge / Full RB



Date: 21.JAN.2020 16:01:10



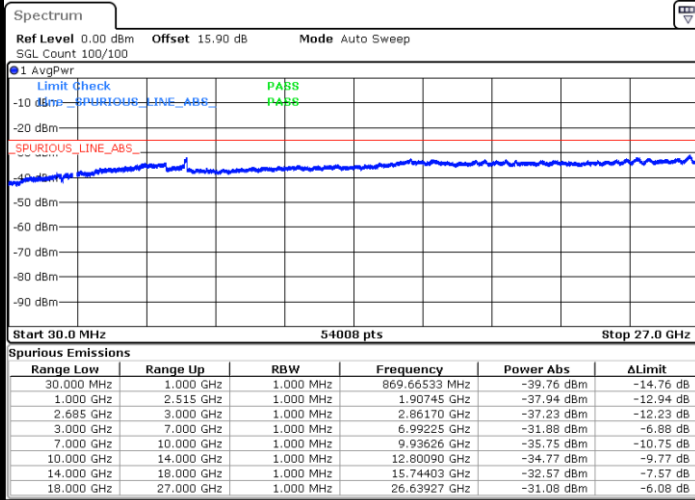
Conducted Spurious Emission





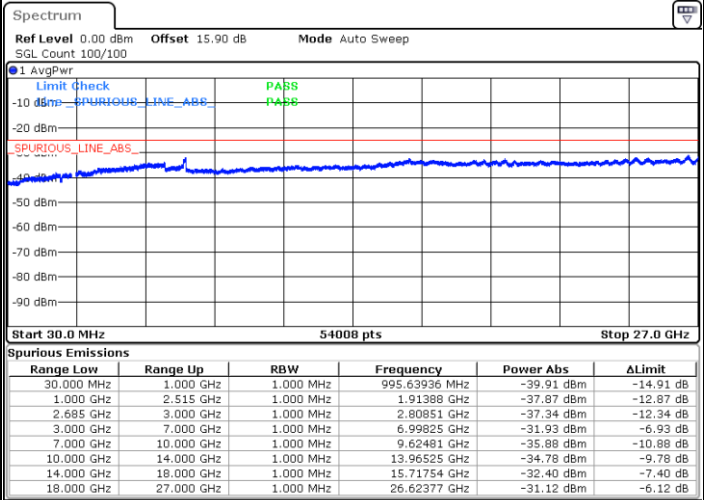
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 21.JAN.2020 14:52:53

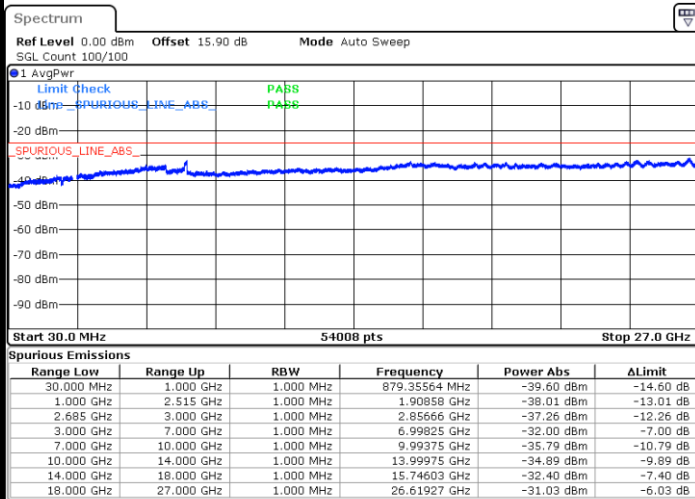
Highest Channel / 16QAM



Date: 21.JAN.2020 14:54:00

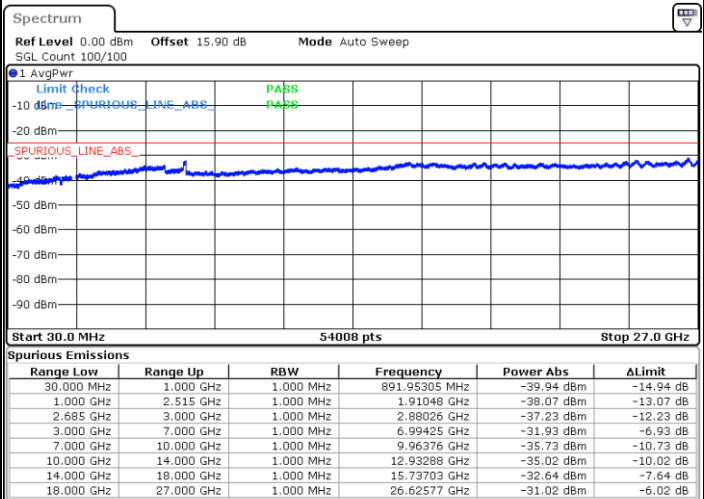
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 21.JAN.2020 15:16:37

Lowest Channel / 16QAM



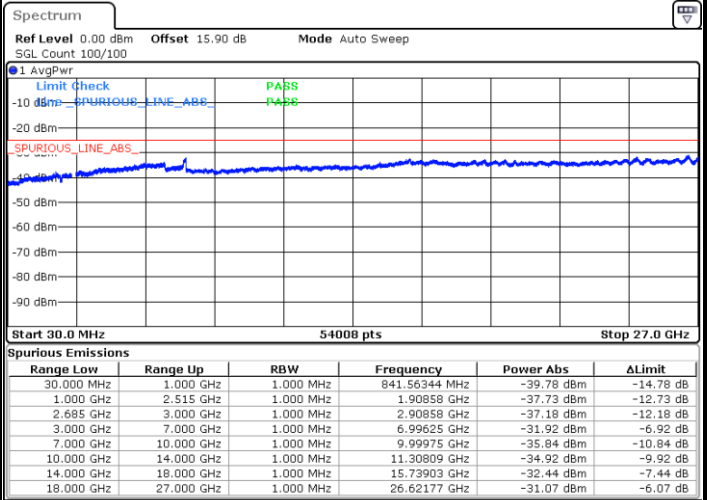
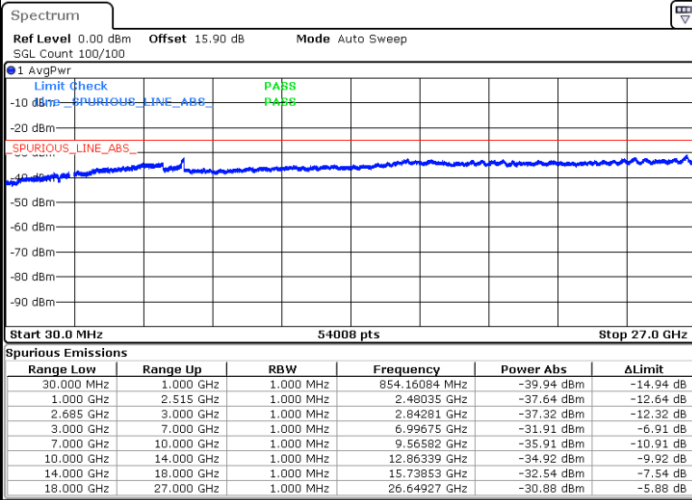
Date: 21.JAN.2020 15:17:43



LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

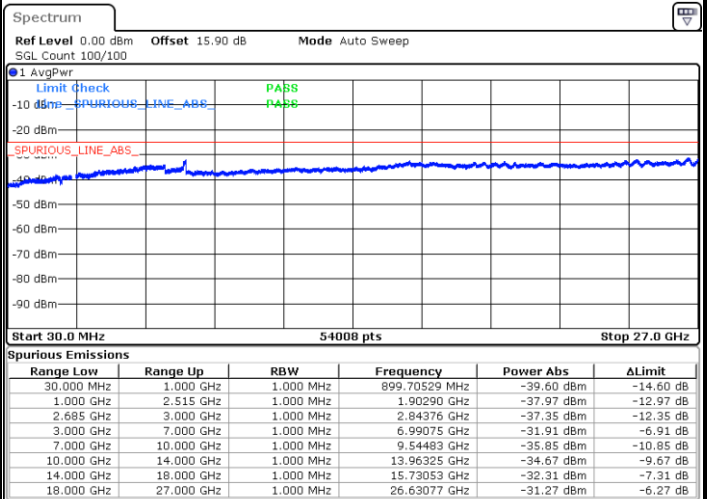
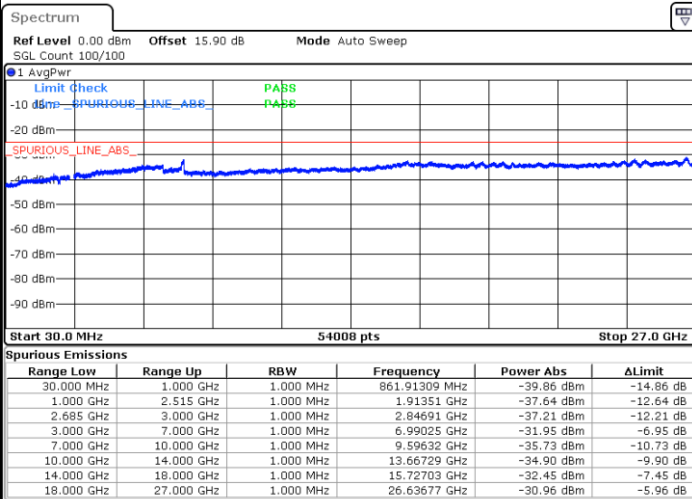


Date: 21.JAN.2020 15:18:50

Date: 21.JAN.2020 15:19:56

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21.JAN.2020 15:25:55

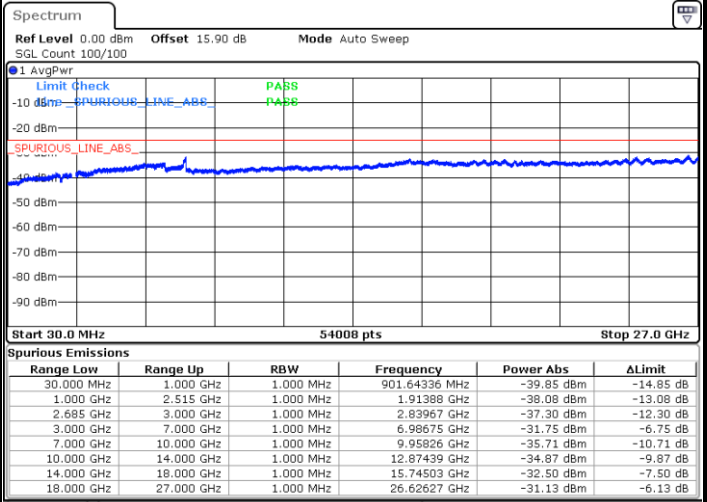
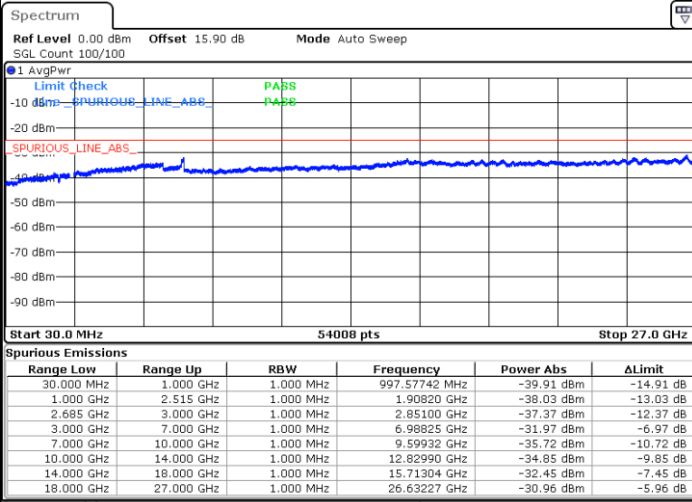
Date: 21.JAN.2020 15:27:02



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

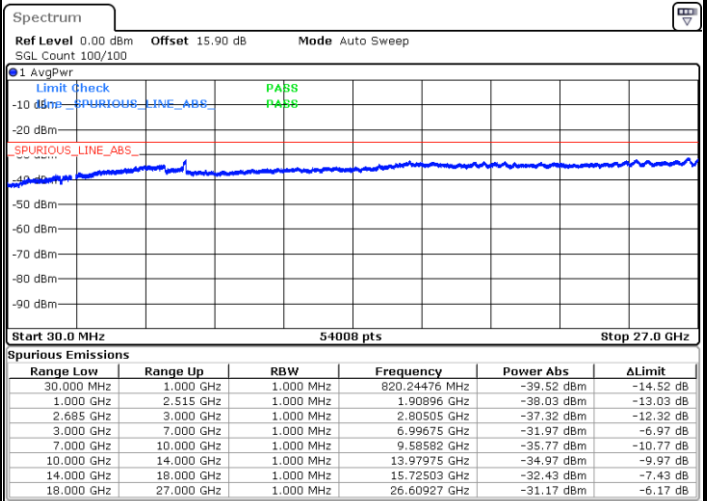
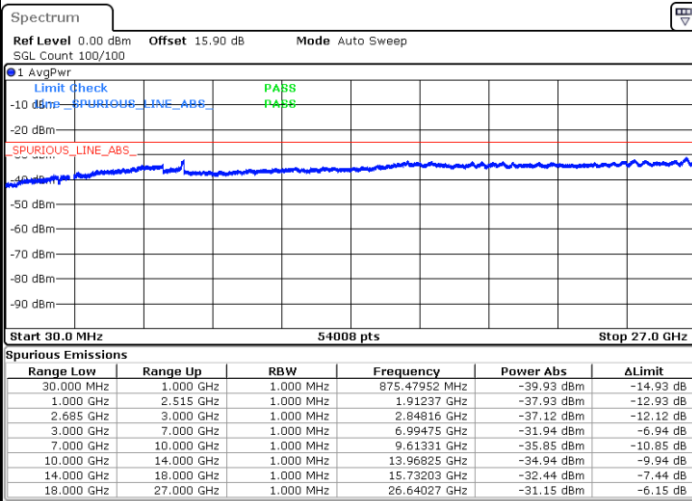


Date: 21.JAN.2020 15:33:09

Date: 21.JAN.2020 15:34:15

Middle Channel / QPSK

Middle Channel / 16QAM



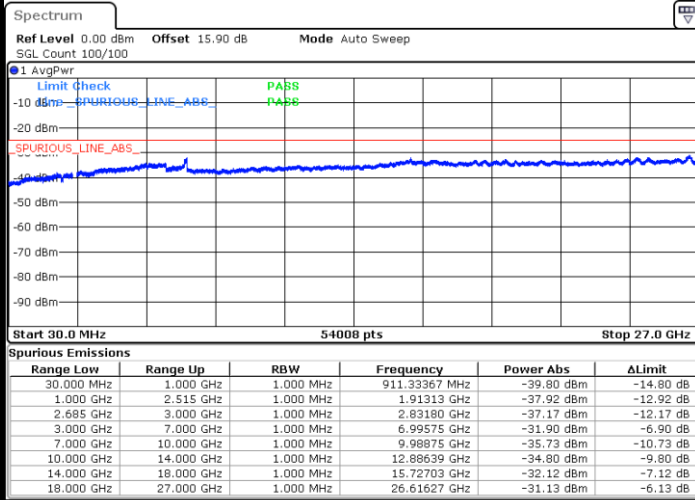
Date: 21.JAN.2020 15:35:22

Date: 21.JAN.2020 15:36:28



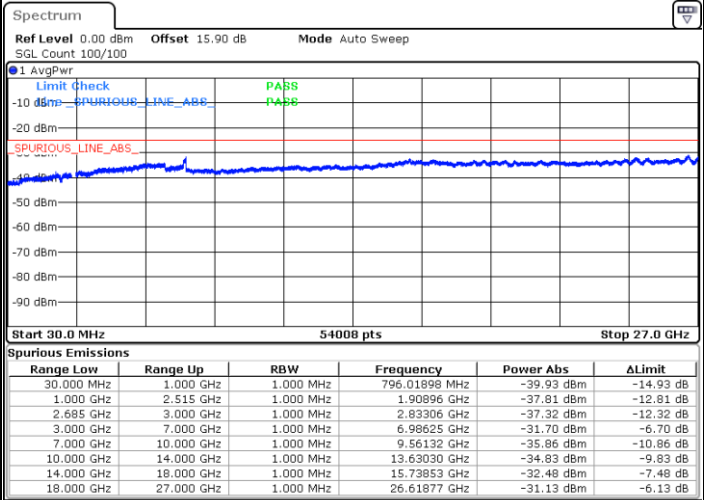
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 21.JAN.2020 15:42:28

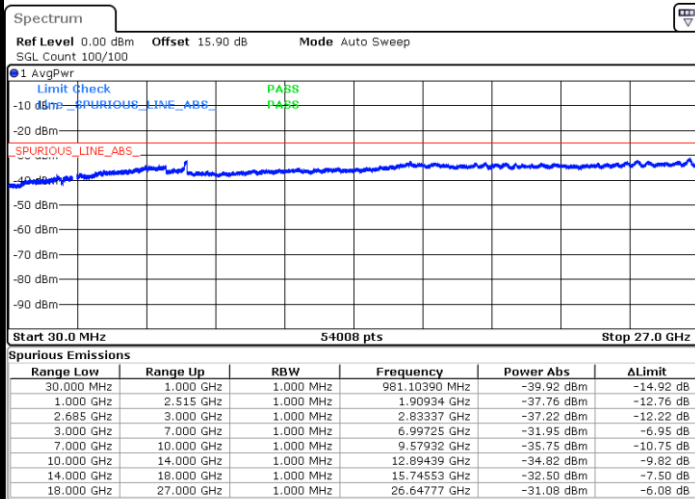
Highest Channel / 16QAM



Date: 21.JAN.2020 15:43:34

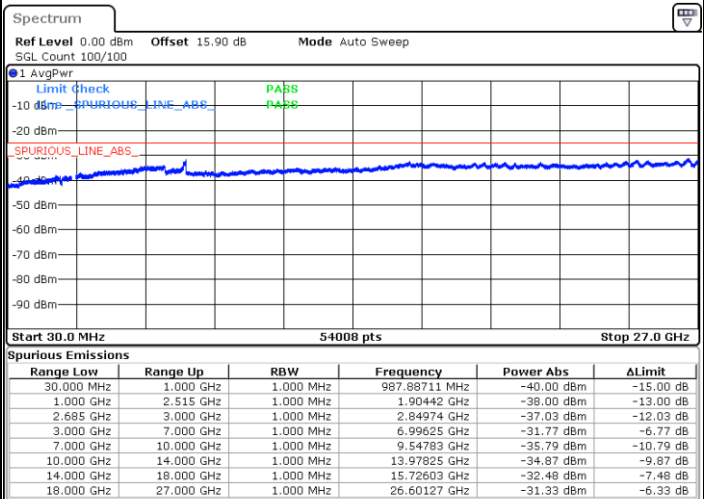
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 21.JAN.2020 16:08:22

Lowest Channel / 16QAM



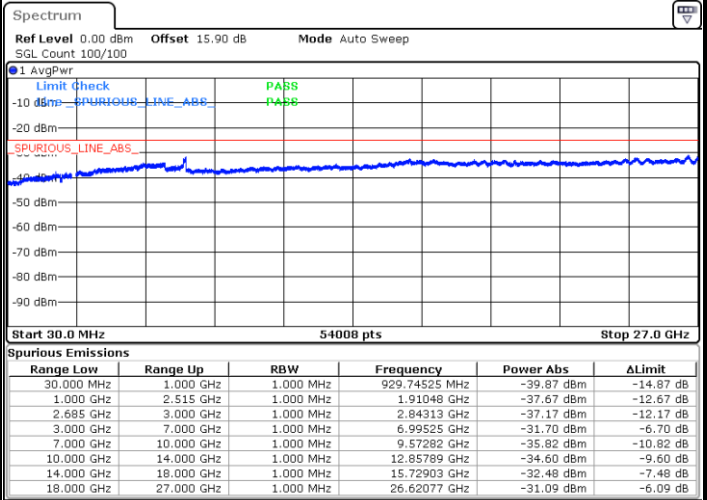
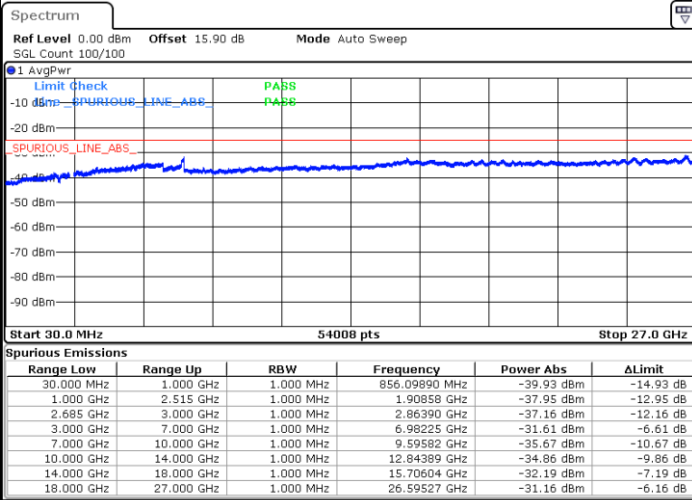
Date: 21.JAN.2020 16:09:28



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

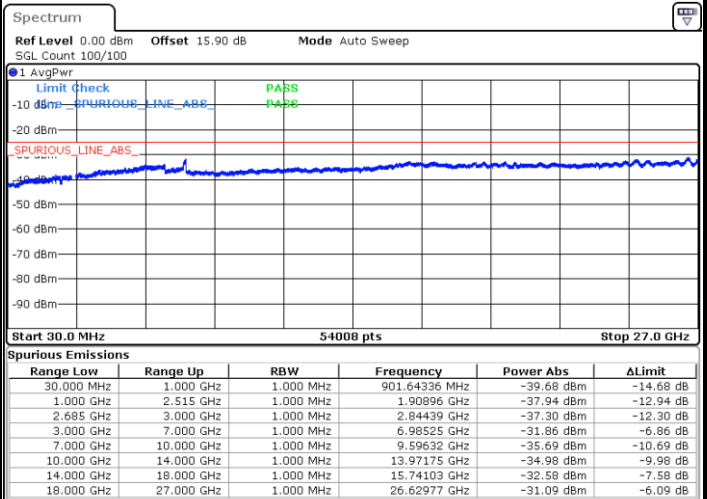
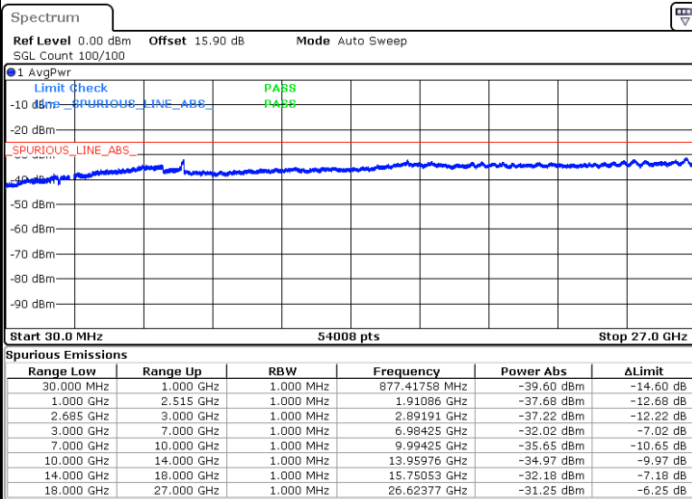


Date: 21.JAN.2020 16:10:35

Date: 21.JAN.2020 16:11:41

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21.JAN.2020 16:17:42

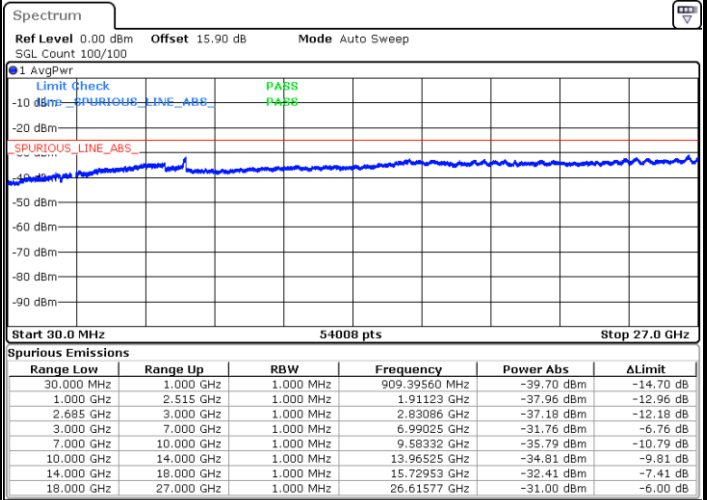
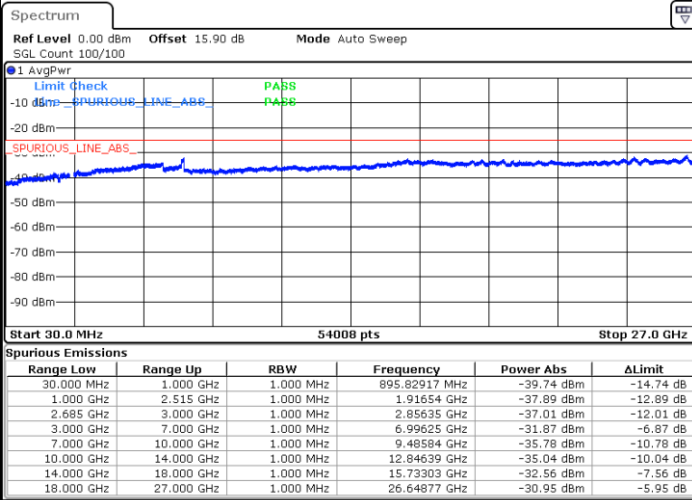
Date: 21.JAN.2020 16:18:48



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

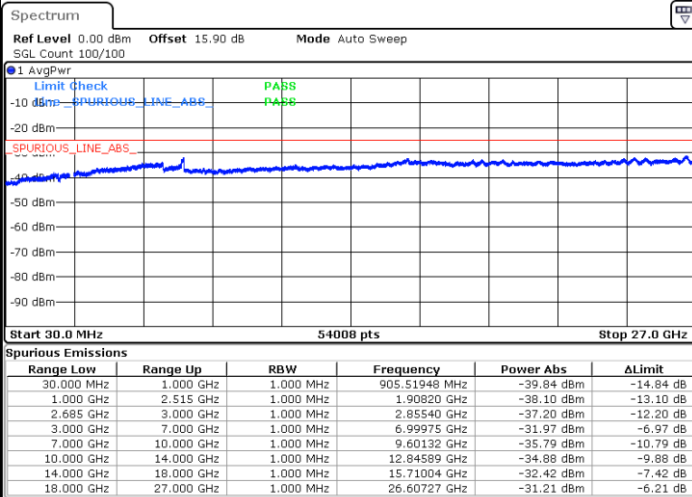
Middle Channel / 64QAM



Date: 21.JAN.2020 14:57:36

Date: 21.JAN.2020 14:58:42

Highest Channel / 64QAM



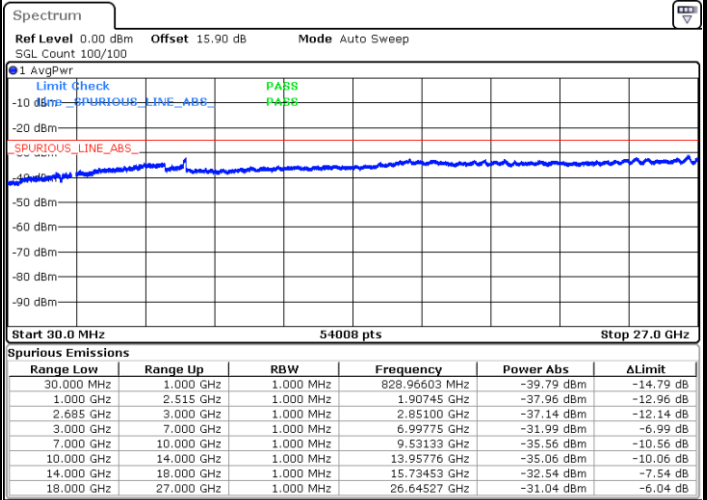
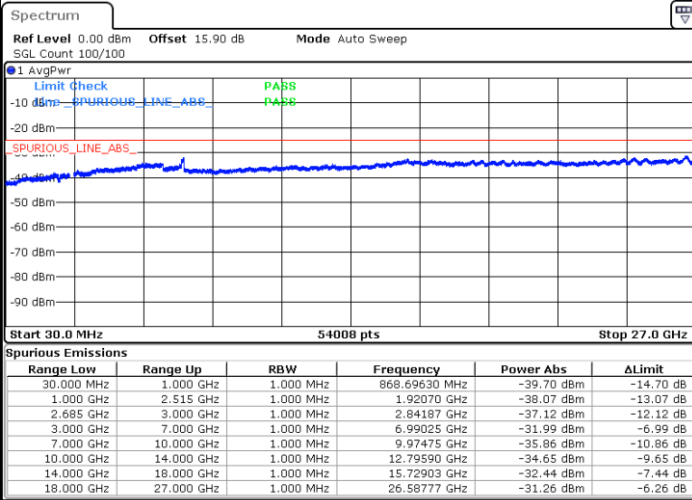
Date: 21.JAN.2020 15:02:15



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

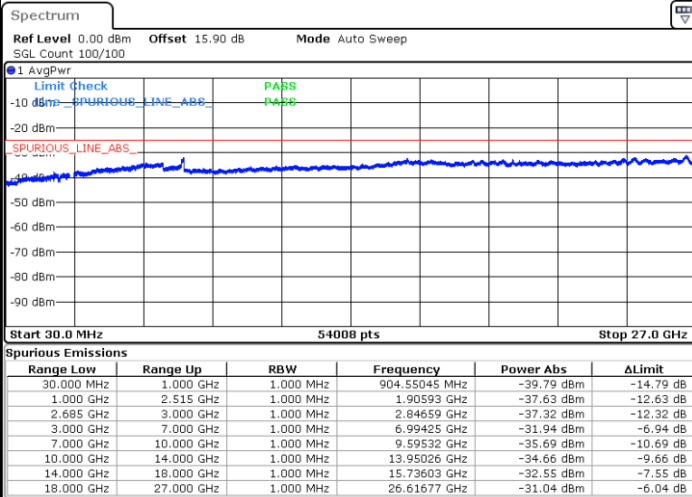
Middle Channel / 64QAM



Date: 21.JAN.2020 15:05:52

Date: 21.JAN.2020 15:06:58

Highest Channel / 64QAM



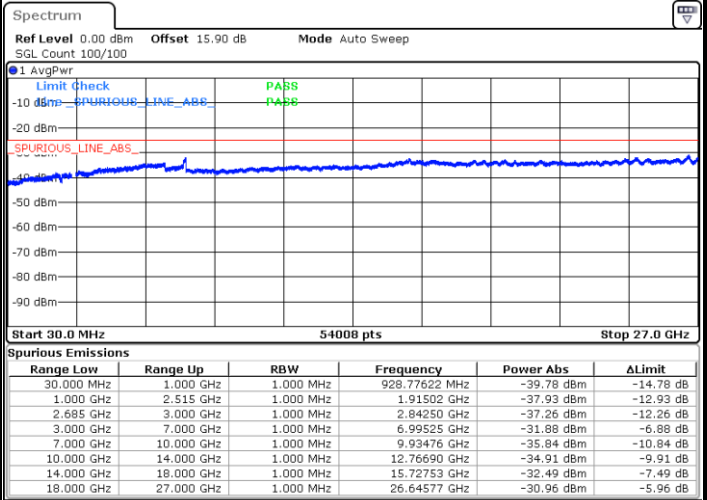
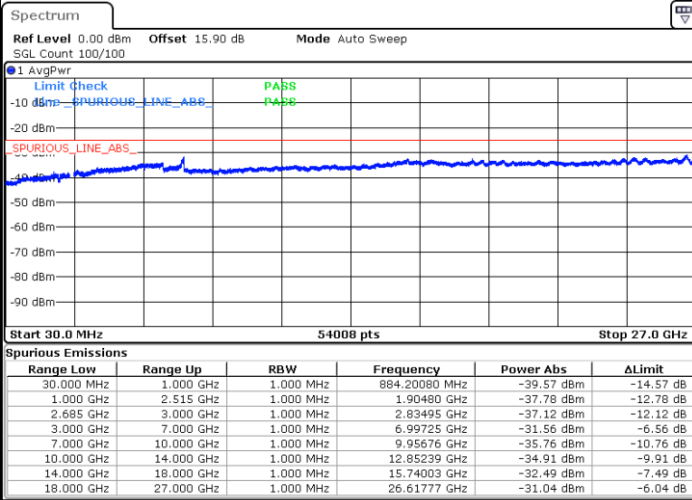
Date: 21.JAN.2020 15:10:31



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

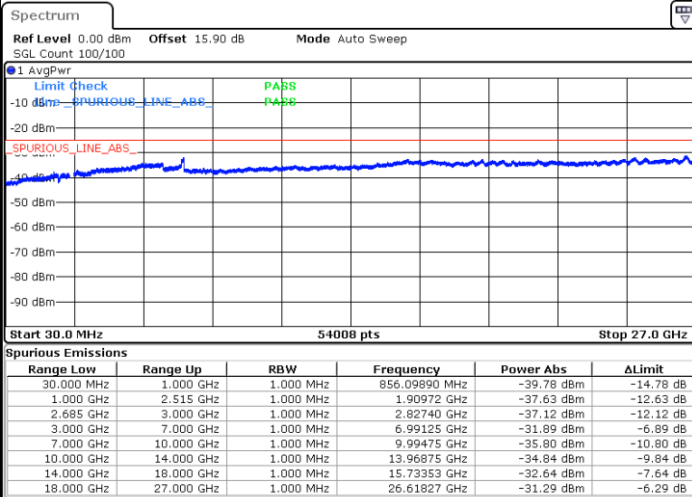
Middle Channel / 64QAM



Date: 21.JAN.2020 15:47:11

Date: 21.JAN.2020 15:48:18

Highest Channel / 64QAM



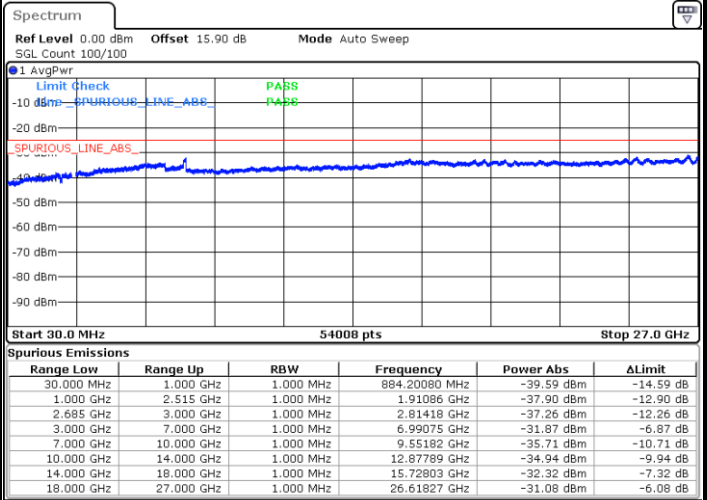
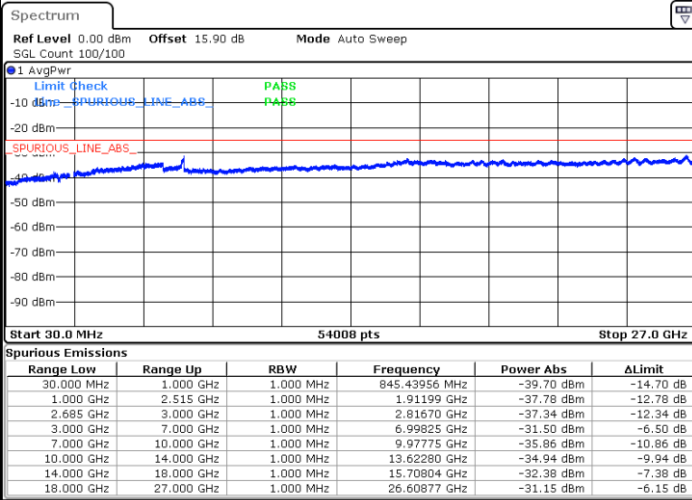
Date: 21.JAN.2020 15:54:00



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

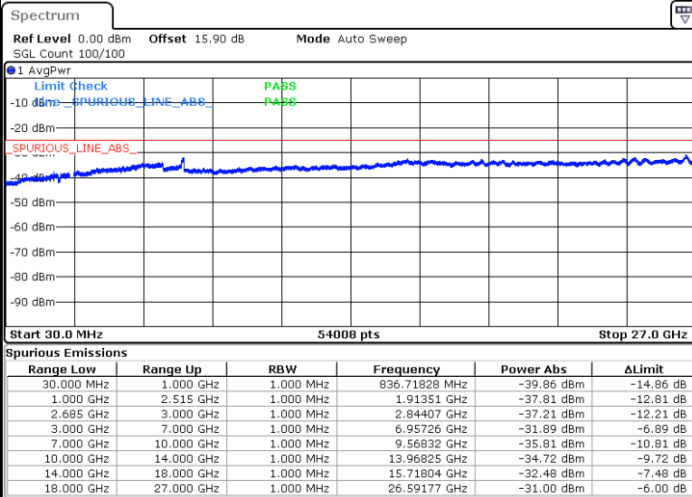
Middle Channel / 64QAM



Date: 21.JAN.2020 15:57:37

Date: 21.JAN.2020 15:58:43

Highest Channel / 64QAM



Date: 21.JAN.2020 16:02:16



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

- 1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of EIRP and Radiated Test

EIRP

LTE Band 4 / 1.4MHz (Average) (GT - LC = -1.92 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	21.68	0.1472	19.76	0.0946
Middle		3	1	21.82	0.1521	19.90	0.0977
Highest		3	1	21.93	0.1560	20.01	0.1002
Lowest	16QAM	1	3	21.57	0.1435	19.65	0.0923
Middle		1	3	21.70	0.1479	19.78	0.0951
Highest		1	3	21.80	0.1514	19.88	0.0973
Lowest	64QAM	1	3	20.50	0.1122	18.58	0.0721
Middle		1	3	20.59	0.1146	18.67	0.0736
Highest		1	3	20.74	0.1186	18.82	0.0762
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = -1.92 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	21.82	0.1521	19.90	0.0977
Middle		1	8	21.80	0.1514	19.88	0.0973
Highest		1	8	21.90	0.1549	19.98	0.0995
Lowest	16QAM	1	8	21.68	0.1472	19.76	0.0946
Middle		1	8	21.65	0.1462	19.73	0.0940
Highest		1	8	21.79	0.1510	19.87	0.0971
Lowest	64QAM	1	8	20.63	0.1156	18.71	0.0743
Middle		1	8	20.60	0.1148	18.68	0.0738
Highest		1	8	20.71	0.1178	18.79	0.0757
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = -1.92 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	21.84	0.1528	19.92	0.0982
Middle		1	12	21.82	0.1521	19.90	0.0977
Highest		1	12	21.88	0.1542	19.96	0.0991
Lowest	16QAM	1	12	21.70	0.1479	19.78	0.0951
Middle		1	12	21.67	0.1469	19.75	0.0944
Highest		1	12	21.80	0.1514	19.88	0.0973
Lowest	64QAM	1	0	20.62	0.1153	18.70	0.0741
Middle		1	0	20.61	0.1151	18.69	0.0740
Highest		1	0	20.72	0.1180	18.80	0.0759
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = -1.92 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.81	0.1517	19.89	0.0975
Middle		1	0	21.82	0.1521	19.90	0.0977
Highest		1	0	21.95	0.1567	20.03	0.1007
Lowest	16QAM	1	0	21.69	0.1476	19.77	0.0948
Middle		1	0	21.72	0.1486	19.80	0.0955
Highest		1	0	21.80	0.1514	19.88	0.0973
Lowest	64QAM	1	0	20.60	0.1148	18.68	0.0738
Middle		1	0	20.63	0.1156	18.71	0.0743
Highest		1	0	20.75	0.1189	18.83	0.0764
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = -1.92 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	21.83	0.1524	19.91	0.0979
Middle		1	37	21.80	0.1514	19.88	0.0973
Highest		1	37	21.96	0.1570	20.04	0.1009
Lowest	16QAM	1	37	21.73	0.1489	19.81	0.0957
Middle		1	37	21.66	0.1466	19.74	0.0942
Highest		1	37	21.81	0.1517	19.89	0.0975
Lowest	64QAM	1	37	20.65	0.1161	18.73	0.0746
Middle		1	37	20.60	0.1148	18.68	0.0738
Highest		1	37	20.79	0.1199	18.87	0.0771
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = -1.92 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	21.82	0.1521	19.90	0.0977
Middle		1	49	21.74	0.1493	19.82	0.0959
Highest		1	49	21.97	0.1574	20.05	0.1012
Lowest	16QAM	1	49	21.70	0.1479	19.78	0.0951
Middle		1	49	21.67	0.1469	19.75	0.0944
Highest		1	49	21.83	0.1524	19.91	0.0979
Lowest	64QAM	1	49	20.64	0.1159	18.72	0.0745
Middle		1	49	20.53	0.1130	18.61	0.0726
Highest		1	49	20.76	0.1191	18.84	0.0766
Limit	EIRP < 1W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = -2.19 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.29	0.2685	22.10	0.1622
Middle		1	0	24.24	0.2655	22.05	0.1603
Highest		1	0	24.33	0.2710	22.14	0.1637
Lowest	16QAM	1	12	23.37	0.2173	21.18	0.1312
Middle		1	12	23.41	0.2193	21.22	0.1324
Highest		1	12	23.38	0.2178	21.19	0.1315
Lowest	64QAM	1	0	22.10	0.1622	19.91	0.0979
Middle		1	0	22.09	0.1618	19.90	0.0977
Highest		1	0	22.22	0.1667	20.03	0.1007
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average) (GT - LC = -2.19 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.19	0.2624	22.00	0.1585
Middle		1	0	24.05	0.2541	21.86	0.1535
Highest		1	0	24.15	0.2600	21.96	0.1570
Lowest	16QAM	1	0	23.28	0.2128	21.09	0.1285
Middle		1	0	23.34	0.2158	21.15	0.1303
Highest		1	0	23.51	0.2244	21.32	0.1355
Lowest	64QAM	1	0	22.15	0.1641	19.96	0.0991
Middle		1	0	22.27	0.1687	20.08	0.1019
Highest		1	0	22.42	0.1746	20.23	0.1054
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average) (GT - LC = -2.19 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.21	0.2636	22.02	0.1592
Middle		1	0	24.32	0.2704	22.13	0.1633
Highest		1	0	24.47	0.2799	22.28	0.1690
Lowest	16QAM	1	0	23.27	0.2123	21.08	0.1282
Middle		1	0	23.29	0.2133	21.10	0.1288
Highest		1	0	23.52	0.2249	21.33	0.1358
Lowest	64QAM	1	0	22.02	0.1592	19.83	0.0962
Middle		1	0	22.10	0.1622	19.91	0.0979
Highest		1	0	22.25	0.1679	20.06	0.1014
Limit	EIRP < 2W			Result		PASS	